BREAKING: Chemotherapy Drugs Reactivate Dormant Cancer Cells — Triggers Metastasis

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posted by Gordon

24/07/2025 TLB Staff HEALTH, Spotlight 1

ER Editor: This needed to be said officially. Cancer treatments have been another deadly scam played on us.

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BREAKING: Chemotherapy Reactivates Dormant Cancer Cells — Triggers Metastasis

New landmark study reveals that standard cancer treatment can backfire — with devastating consequences.

Nicolas Hulscher, MPH

Chemotherapy is supposed to kill cancer — not bring it back. But a groundbreaking *Cancer Cell* study by He et al has revealed that common cancer drugs like doxorubicin and cisplatin can reawaken dormant tumor cells, triggering deadly metastatic relapses — especially in the lungs.

These “sleeping” cancer cells, known as **disseminated tumor cells (DTCs)**, can lie hidden for years before reactivating. This study is the first to directly prove that **chemotherapy itself can wake them up.**

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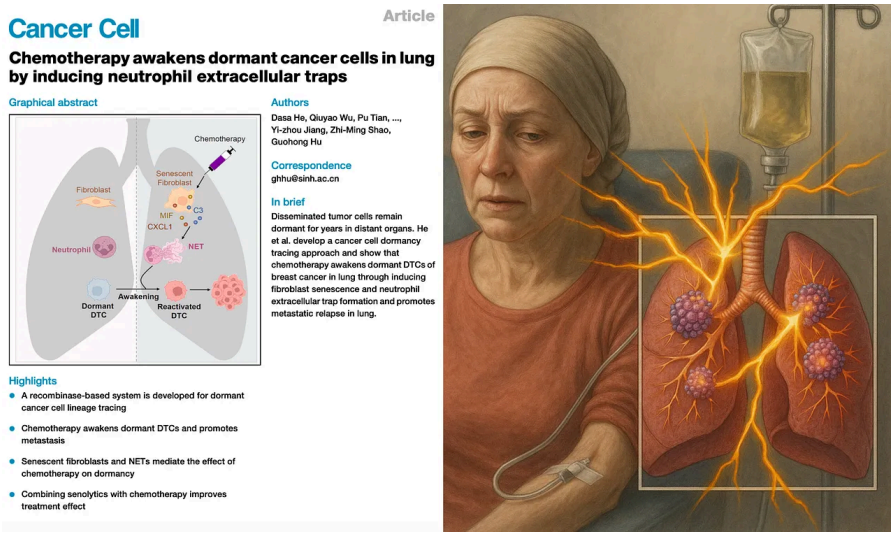

METHODS

Researchers used mice with breast cancer to model how **chemotherapy affects dormant cancer cells.** They developed a genetic tracing tool called **DormTracer**, which labels cells that go into dormancy and reveals if they later start dividing again.

Key steps:

Mice received chemo (doxorubicin or cisplatin), then dormant tumor cells were tracked over time

Advanced imaging and genetic markers distinguished cells that stayed dormant vs. those that “woke up”

Some mice received *senolytic drugs* (to eliminate damaged stromal cells) or *NET inhibitors* (to block immune system traps)

They also examined **breast cancer patients’ tumor tissue and blood** before and after chemo — checking for inflammation, immune activity, and relapse signals.

KEY FINDINGS

Chemotherapy Reactivates Dormant Cancer Cells

Using DormTracer, the team showed that chemo-treated mice had a **surge of previously dormant cancer cells re-entering the cell cycle.**

These reawakened cells formed **aggressive lung metastases weeks after chemo** — even in cases where the primary tumor was gone.

This effect was specific to ***dormant* cells; chemo suppressed active tumors but inadvertently activated the sleeping ones.**

Neutrophil Extracellular Traps (NETs) Are the Trigger

Chemotherapy didn’t just hit cancer cells — it **also caused *fibroblasts in the lung* to enter a state called senescence (biological aging).**

These senescent cells released pro-inflammatory signals that activated neutrophils — a type of white blood cell.

The neutrophils formed *NETs* — sticky webs of DNA and enzymes like MMP9 and neutrophil elastase — which *remodeled the lung microenvironment* and **directly triggered dormant DTCs to awaken.**

SASP Proteins (C3, MIF, CXCL1) Drive This Chain Reaction

The senescent fibroblasts released a **toxic cocktail** known as SASP (senescence-associated secretory phenotype).

Three key factors — **Complement C3**, **Macrophage Migration Inhibitory Factor (MIF)**, and **CXCL1** — were identified as major drivers of NET formation.

Mice engineered to lack C3 had far less NET activity and lower rates of metastasis after chemo.

Blocking NETs or Clearing Senescent Cells Prevents Relapse

Administering **DNase I** (which breaks up NETs) or **GSK484** (a PAD4 inhibitor that blocks NET formation) completely prevented chemo-triggered metastasis in mice.

Giving **Dasatinib + Quercetin** (a senolytic combo) *cleared out the senescent fibroblasts* and shut down the entire cascade — resulting in both primary tumor control and *no relapse*.

Importantly, this combination didn’t reduce chemo’s effectiveness at shrinking the primary tumor.

The Mechanism Was Confirmed in Humans

In breast cancer patients, lung metastases had higher NET density and elevated C3, MIF, and CXCL1 levels after chemotherapy.

Blood samples showed C3 and MIF spiked after treatment — especially in patients who later developed lung relapse.

These markers could become *predictive biomarkers* for relapse risk in future screening.

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Gary Fraughen Free Event in Glastonbury

Date: 12 October 2025

Time: 11:00 - 15:30

Location: The Assembly Rooms Glastonbury

More info

Author and speaker Gary Fraughen has a new book coming soon. “**Jesuit Cipher and the Shadows of the Grey Pope**” is well underway and due for print in late July. Gary will be doing a free talk and book promotion event on Sunday the 12th October in Glastonbury. Subscribe to Gary’s newsletter for info on the new book and free talk as its released.

https://garyfraughen.co.uk/glastonbury-free-talk-12th-october-2025

+++ FREE EVENT +++

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Belyi on BREAKING: Chemotherapy Drugs Reactivate Dormant Cancer Cells — Triggers

This study flips the script on conventional cancer therapy.

Chemotherapy may control the primary tumor — but it can also fuel future metastasis by waking up hidden cancer cells through inflammation and immune activation. Pairing chemo with senolytics or NET-blockers could dramatically reduce relapse — and early trials are already underway.

However, it's time to explore cancer treatments that don't harm the entire body and reawaken dormant cancer cells, such as:

IVERMECTIN

NEW STUDY – Ivermectin Shows Striking Anticancer Potential and Remarkable Safety

Nicolas Hulscher, MPH

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22 Apr

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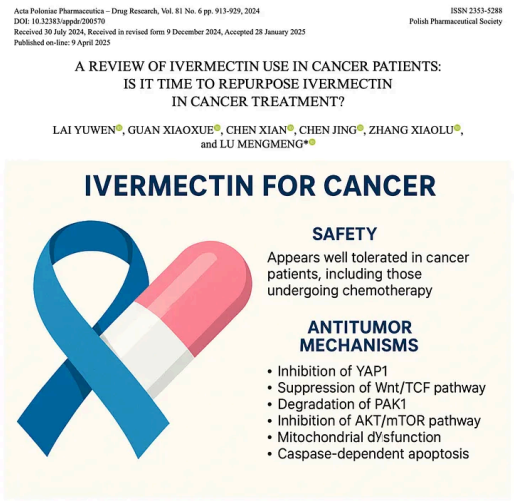
The largest review to date of ivermectin use in cancer patients found no safety concerns, promising anecdotal reports, and strong preclinical evidence of tumor suppression: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A REVIEW OF IVERMECTIN USE IN CANCER PATIENTS:
IS IT TIME TO REPURPOSE IVERMECTIN
IN CANCER TREATMENT?

LAI YUWEN, GUAN XIAOXUE, CHEN XIAN, CHEN JING, ZHANG XIAOLU, and LU MENGMENG*

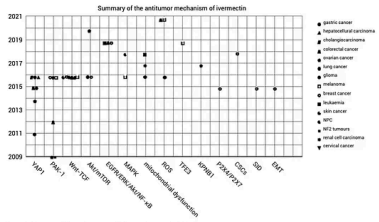


Figure 2. Summary of the antitumor mechanisms of ivermectin in different tumor types.

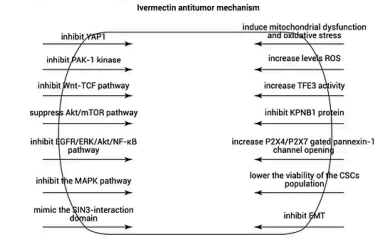
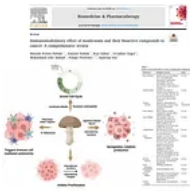


Figure 3. Summary of the antitumor mechanisms of ivermectin.

MUSHROOMS



The Remarkable Anti-Cancer Potential of Mushrooms

Nicolas Hulscher, MPH

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8 Feb

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Medicinal mushrooms demonstrate significant promise in cancer prevention and treatment—supported by mechanistic, epidemiological, and emerging clinical evidence:

Metastasis

Belyi on 'GMO' food isn't actually 'genetically modified.' It's physically, chemically, and energetically violated.

Belyi on 'GMO' food isn't actually 'genetically modified.' It's physically, chemically, and energetically violated.

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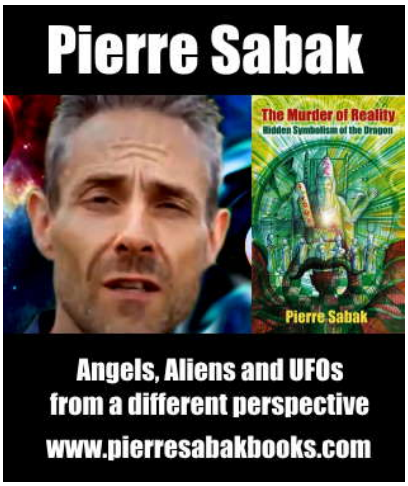

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Review

Immunomodulatory effect of mushrooms and their bioactive compounds in cancer: A comprehensive review

Manash Pratim Pathak [a,*], Kalyani Pathak [b], Riya Saikia [b], Urvashee Gogoi [b], Mohammad Zaki Ahmad [c], Pompy Patowary [b,d], Aparoop Das [b]

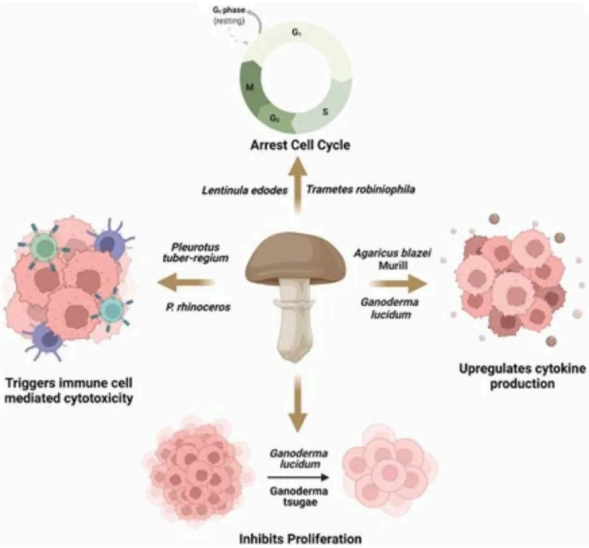

Table 1
Studies on the mechanism of action of mushrooms components.

Mushroom	Biological activity	Study	References
Genus Pleurotus	Stimulate NK cell, macrophage, and T cell proliferation, maturation of lymphocytes, natural killer cells, and macrophages results in an increase in the weight and size of the spleen.	In vitro	[133]
Lentinula edodes	Stimulate the release of cytotoxic and cytostatic IL-1, IL-2, IL-6, IL-8, TNF-, and TNF, and prevent the proliferation of breast cancer cells and DNA synthesis.	In vitro	[175]
Trametes versicolor	Apoptosis, antiangiogenesis, antimetastasis, reversal of drug resistance, and immune modulation	In vitroClinical	[176]
Genus Agaricus	Induce apoptosis, inhibit angiogenesis, stimulate TNF-α production by BMM	In vitro	[177]
Genus Phellinus	anti-angiogenic effects by inhibiting the proliferation, migration, and assembly of human umbilical vein endothelial cells (HUVECs) into capillary-like structures	In vitro	[178]
Grifola frondosa	Macrophages are activated, and IL-1, IL-6, and IL-8 are released into the bloodstream.	In vitro	[179]
Genus *Ganoderma*	Cytotoxic to cancer cells, inhibits cancer cell growth, stimulates T cells, increases IL-1, IL-2, IL-6, TNF-, and IFN expression and secretion, inhibits cell motility and angiogenesis, inhibits proliferation and induces apoptosis, downregulate cyclins A and B and upregulate p21 and p27, arrest cell cycle	In vitro	[180]
Hericium erinaceus	Increase NK activity, activating macrophages, and inhibiting angiogenesis	In vitro	[181]
Fomes fomentarius	Inhibiting proliferation	In vitro	[182]
Schizophyllum commune	Immunomodulating effect	Clinical	[183]
Inonotus obliquus	Halting the cell cycle during the G0/G1 phase and killing B16-F10 cells and induced cell differentiation.	In vitro	[184]
Coprinus comatus	Inhibit cancer cell proliferation	In vitro	[185]

Nicolas Hulscher, MPH

Epidemiologist and Foundation Administrator, McCullough Foundation

www.mcculloughfnd.org

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2 Responses to “BREAKING: Chemotherapy Drugs Reactivate Dormant Cancer Cells — Triggers Metastasis”

Belyi says: 27 Jul 2025 09:38

Chemotherapy has been judged to work in around 2 percent of cancer patients and these are usually for cancers of the blood or the lymph system.

As to surgery, many experts have pointed out that unless the cancer stem cells are removed, the ‘daughter’ cells will just reproduce more powerfully elsewhere.

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27 Jul 2025 14:16

pete fairhurst 2 says:

Good info Gordon, thanks

And thanks Belyi too

I was only talking about this with my daughter this morning. Her friend has had a “successful” mastectomy and is under pressure to agree to chemotherapy. My advice was “Research thoroughly before agreeing to that. Probably best to give it a miss, but clearly your decision”.

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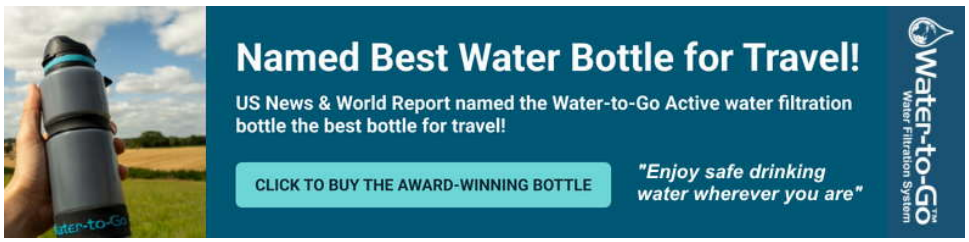

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